

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELGAUM- 590014**



A Project Report

On

EFFECT OF VARIOUS COMBUSTION CHAMER FOR BIODIESEL OPERATED CI ENGINES

(Project is sponsored by Karnataka State Council for Science and Technology, Indian Institute of Science, Bangalore 560012 PROJECT PROPOSAL REFERENCE NUMBER: 36S_B_BE_041)

Bachelor of Engineering in Automobile

Submitted By

PRAJWAL SANDYAL	2BV09AU038
ABHILASH SHINDE	2BV09AU002
MAHESH NERALEKAR	2BV09AU024
NITISH ELIGAR	2BV10AU412

**Under the guidance of
Prof. GIREESH N M**



**DEPARTMENT OF AUTOMOBILE ENGINEERING
B.V.B. COLLEGE OF ENGINEERING & TECHNOLOGY,
HUBLI – 580 031 (India).
(An Autonomous Institution affiliated to VTU, Belgaum)
Academic year 2012-13**

ABSTRACT

The diminishing resources and continuously escalating cost of petroleum fuels in association with the alarming pollution levels from diesel engines has caused an interest in searching suitable alternative fuels to diesel engines.

Vegetable oils are renewable by nature and the non-edible category of such an oil can be used as an alternate fuel to C.I. engines. In this project Honge oil being locally and abundantly available, is selected as an alternative fuel. The biodiesel of Honge oil called HOME was procured and its properties were tested on a single cylinder diesel engine for different engine parameters of different design of combustion chambers. Finally, its performance and emission characteristics were evaluated and compared with that of pure diesel and it was found to be an effective alternative fuel with comparable emission characteristics.